

WHAT IS CLAIMED IS:

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1. A programmable controller which comprises a speed pattern generator including speed pattern generator units that receive input of the amount of movement, speed, acceleration, time, and deceleration time and calculate a desired speed pattern for output to a servomotor, wherein

the speed pattern generator includes a plurality of speed pattern generator units and also generates a desired speed pattern by simultaneously operating one or more arbitrary speed pattern generator units of said plurality of speed pattern generator units.

2. A programmable controller as set forth in Claim 1, wherein

the programmable controller comprises a user operation portion, the speed pattern generator outputs the calculated speed pattern to said user operation portion, and an output is sent from said user operation portion to the servomotor.

3. A programmable controller as set forth in Claim 2, wherein

the user operation portion can be started and stopped by a user at free timing.

4. A programmable controller as set forth in Claim 1, wherein

the speed pattern generator units store trapezoidal waveforms having arbitrary shapes and a desired speed pattern is generated as a composite pattern that is geometrically superposed based on the algebraic sum of these trapezoidal waveforms.